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JCS86 U.S. PTO

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Docket No. DA9-92-108B
Prior Application No.: 08/160,348
First Named Inventor: William J. Johnson

Examiner: Huynh, B.
Art Unit: 2303

JCS51 U.S. PTO
09/150549
09/09/98

ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

Sir: This is a request for filing a continuation
 continuation-in-part
 X divisional

application under 37 CFR 1.53(b), of pending prior application serial no. 08/160,348 filed on December 1, 1993, for METHOD AND SYSTEM FOR CURSOR APPLIED PROCESSING WITHIN A DATA PROCESSING SYSTEM.

1. X Enclosed is a complete copy of the prior application **including the oath or declaration as originally filed** and an affidavit or declaration verifying it as a true copy. (See Section 14 for declaration.)
2. X New formal drawings are enclosed.
3. A preliminary amendment is enclosed. (Claims added by this amendment have been properly numbered consecutively beginning with the number next following the highest numbered original claim in the prior application.)
4. X Also enclosed: **Information Disclosure Statement**
Form PTO-1449
Copies of Cited References
Our return postcard
5. A verified statement to establish small entity status under 37 CFR 1.9 and 1.27 is enclosed was filed in the prior application and such status is still proper and desired (37 CFR 1.28(a)).
6. X Cancel in this application original claims 2 and 8 of the prior application before calculating the filing fee. (At least one original independent claim must be retained for filing purposes.)
7. X Amend the specification by inserting the following sentence before the first line: "This is a Continuation, Continuation-in-Part or X Division of application serial no. 08/160,348, filed December 1, 1993, currently pending."
8. Priority of application serial No. , filed on , in is claimed under 35 U.S.C. 119. The certified copy has been filed in prior application serial no. , filed .

08/150549-090998

CERTIFICATE OF MAILING
37 CFR 1.8(A)

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to Assistant Commissioner for Patents, Washington, D. C. 20231.

9-4-98
Date

[Signature]
Signature

9. X The filing fee is calculated below:

CLAIMS AS FILED IN THE PRIOR APPLICATION
LESS ANY CLAIMS CANCELLED BY AMENDMENT NOW

Basic Fee		\$790.00
Extra Total Claims (___ x \$22.00)	=	0.00
Extra Independent Claims (___ x \$82.00)	=	0.00
Total Filing Fee:	=	\$790.00

10. X The Commissioner is hereby authorized to charge **\$790.00** and any additional fee which may be required, or credit any overpayment to IBM Corporation Deposit Account **09-0453**. A duplicate of this sheet is enclosed.

11. _____ A check in the amount of \$_____ is enclosed.

12. X The prior application is assigned of record to International Business Machines Corp., Armonk, NY 10504.

13. X The power of attorney in the prior application is to Andrew J. Dillon


- a. X The power of attorney appears in the original papers in the prior application.
- b. _____ A new power of attorney is enclosed (*adding prosecution attorneys*).
- c. _____ Since the power of attorney does not appear in the original papers, a copy of the power in the prior application is enclosed.
- d. X Address all future communication to: **Andrew J. Dillon, Esq., Felsman, Bradley, Gunter & Dillon, LLP, Suite 350, Lakewood on the Park, 7600B North Capital of Texas Highway, Austin, Texas 78731.**

14. X I hereby verify that the attached papers are a true copy of prior application serial no. **08/160,348** as originally filed on **December 1, 1993**.

The undersigned declares further that all statements made herein of his or her own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application of any patent issuing thereon.

9-4-98
Date

Address of signatory:
FELSMAN, BRADLEY,
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Andrew J. Dillon
Reg. No. 29,634

Inventor(s)

Assignee of complete interest
 X Attorney or agent of record

Filed under §1.34(a)

SPECIFICATION

Docket No. DA9-92-108

TO ALL WHOM IT MAY CONCERN:

BE IT KNOWN THAT WE, **William J. Johnson** and **Michael D. Smith**, are citizens of the United States of America residing in the State of Texas, have invented new and useful improvements in a

METHOD AND SYSTEM FOR CURSOR APPLIED PROCESSING WITHIN A DATA PROCESSING SYSTEM

of which the following is a specification:

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SUMMARY OF THE INVENTION

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It is therefore one object of the present invention to provide an improved data processing system.

It is another object of the present invention to provide an improved method and system for efficiently executing a predefined process within a data processing system.

It is yet another object of the present invention to provide a graphical technique for executing a predefined process upon an arbitrary user interface object within a data processing system.

The foregoing objects are achieved as is now described. The method and system of the present invention may be utilized to efficiently execute a predefined process within a data processing system having multiple objects and a movable cursor element displayed therein. A user defined executable process is specified within the data processing system which may be applied to one or more arbitrary objects within the data processing system. The user defined executable process is then associated with the movable cursor within the data processing system. Thereafter, each time an object is graphically selected within the data processing system utilizing the movable cursor, the user defined executable process is applied to the selected object. The physical appearance of the movable cursor is preferably altered to indicate the association of the user defined executable process with the movable cursor and an error message is returned in response to a selection of an object which cannot be processed utilizing the user defined executable process.

- 1 The above as well as additional objectives, features, and
- 2 advantages of the present invention will become apparent in the following
- 3 detailed written description.
- 4

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BRIEF DESCRIPTION OF THE DRAWINGS

The novel features believed characteristic of the invention are set forth in the appended claims. The invention itself, however, as well as a preferred mode of use, further objectives and advantages thereof, will best be understood by reference to the following detailed description of an illustrative embodiment when read in conjunction with the accompanying drawings, wherein:

Figure 1 is a pictorial representation of a data processing system which may be utilized to implement the method and system of the present invention;

Figure 2 is a pictorial representation of a display screen within the data processing system of **Figure 1** which illustrates the display of a movable cursor and multiple user selectable objects which may be operated upon utilizing the method and system of the present invention;

Figure 3 is a pictorial representation of a display screen within the data processing system of **Figure 1** which illustrates the display of a movable cursor which has been graphically altered in appearance in response to an association of a user defined process with the movable cursor in accordance with the method and system of the present invention;

Figure 4 is a pictorial representation of the display screen within the data processing system of **Figure 1** which illustrates the display of a graphically altered movable cursor and the graphic selection of a particular user selectable object in accordance with the method and system of the present invention;

1 **Figure 5** is a pictorial representation of a display screen which
2 illustrates the display of a result of an execution of the user defined process
3 upon the graphically selected user selectable object in accordance with the
4 method and system of the present invention;

5

6 **Figure 6** is a high level logic flowchart which illustrates the
7 specification of a user defined process to be utilized in accordance with the
8 method and system of the present invention;

9

10 **Figure 7** is a high level logic flowchart which illustrates the
11 association of a user defined process with a movable cursor in accordance
12 with the method and system of the present invention; and

13

14 **Figure 8** is a high level logic flowchart which illustrates the
15 execution of a user defined process upon a particular user selectable object
16 in response to a graphic selection of the object by a user utilizing a movable
17 cursor in accordance with the method and system of the present invention.

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DETAILED DESCRIPTION OF PREFERRED EMBODIMENT

With reference now to the figures and in particular with reference to **Figure 1**, there is depicted a pictorial representation of a data processing system **10** which may be utilized to implement the method and system of the present invention. As illustrated, data processing system **10** includes a processor **12** and a keyboard **14**. As is typical in such data processing systems, a display device **16** is also coupled to processor **12** and includes a display screen **18**. A graphic pointing device **20**, such as a mouse pointer, is also coupled to processor **12** and may be utilized, as those skilled in the art will appreciate, to graphically select an element within display screen **18** in a manner well known in the art. Data processing system **10** may be implemented utilizing any so-called "personal" computer, such as the International Business Machines Corporation PS/2 personal computer.

Referring now to **Figure 2**, there is depicted a pictorial representation of a display screen **18** within data processing system **10** of **Figure 1** which illustrates the display of a movable mouse cursor **22** and multiple user selectable objects which may be operated upon utilizing the method and system of the present invention. As illustrated, multiple user selectable objects **24, 26, 28, 30, 32, 34, 36, 38, and 40** are displayed within display screen **18**. Such user selectable objects may comprise iconic representations of documents, files, folders, or the like. Similarly, those skilled in the art will appreciate that such user selectable objects may also comprise iconic representations of selected applications or utilities within data processing system **10**. Each user selectable object within display screen **18** may, as those ordinarily skilled in the art will appreciate, be graphically selected, utilizing graphic pointing device **22** by physically locating movable mouse cursor **22** above a particular user selectable object and thereafter

1 "clicking" or otherwise selecting the object utilizing a mouse button or other
2 similar input device.

3

4 With reference now to **Figure 3**, there is depicted a pictorial
5 representation of display screen **18** of **Figure 2** within data processing
6 system **10** of **Figure 1** which illustrates the display of a movable cursor which
7 has been graphically altered in appearance in response to an association of
8 a user defined process with the movable cursor in accordance with the
9 method and system of the present invention. As illustrated, the appearance
10 of movable mouse cursor **22** has been graphically altered and is now
11 depicted as graphically altered mouse cursor **42**. Those having ordinary skill
12 in this art will appreciate that any suitable graphical technique for indicating
13 the association of a user defined process may be utilized to indicate that
14 association and that the shape, color or physical appearance of movable
15 mouse cursor **22** may be suitably altered to indicate that association. In the
16 depicted embodiment of the present invention, the user defined process may
17 comprise, for example, a specification of a particular series of alphanumeric
18 characters which are to be searched for within a file listing represented by a
19 selectable object within display screen **18**.

20

21 Thus, if the user desires to examine each user selectable object
22 within display screen **18** to locate each file or document having the letters "P,"
23 "R," "O," "L," within the file name, a simple procedure may be defined for
24 specifying that process. In a manner which will be explained in greater detail
25 herein, that user defined process may be created and stored and thereafter
26 selected for association with movable mouse cursor **22** to create graphically
27 altered mouse cursor **42** in the manner depicted within **Figure 3**.

28

1 Next, referring to **Figure 4**, there is depicted a pictorial
2 representation of display screen **18** within data processing system **10** of
3 **Figure 1**, which illustrates the display of a graphically altered movable cursor
4 and a graphic selection of a particular user selectable object in accordance
5 with the method and system of the present invention. Thus, as illustrated
6 within **Figure 4**, graphically altered mouse cursor **42** has been moved to a
7 position overlying user selectable object **26**. In this manner, as will be
8 explained in greater detail below, the user defined process associated with
9 graphically altered mouse cursor **42** will then be applied to user selectable
10 object **26** upon the graphic selection of user selectable object **26**, utilizing
11 graphically altered mouse cursor **42**. Thus, the graphic selection and
12 "clicking" on user selectable logic **26** utilizing graphically altered mouse cursor
13 **42** will result in the execution of the selected user defined process on the
14 contents of that user selectable object.

15
16 With reference now to **Figure 5**, there is depicted a pictorial
17 representation of a display screen **18** within data processing system **10** of
18 **Figure 1**, which illustrates the display of a result of an execution of the user
19 defined process upon the graphically selected user selectable object, in
20 accordance with the method and system of the present invention. Thus, as
21 illustrated within **Figure 5**, a search results listing **44** has been created which
22 lists each file within user selectable object **26** which satisfies the search
23 criteria set forth within the predefined process which has been selected by
24 the user.

25
26 In this manner, as those ordinarily skilled in the art will
27 appreciate, a user predefined process may be created and associated with
28 a movable mouse cursor and thereafter executed upon any arbitrarily
29 selected object within the data processing system by the simple expedient of

1 graphically selecting a user selectable object utilizing the graphically altered
2 mouse cursor. Of course, in the event the object selected is inappropriate
3 for execution of the user defined process, an error message may be
4 generated and returned to the user.

5

6 Referring now to **Figure 6**, there is depicted a high level logic
7 flowchart which illustrates the specification of a process to be utilized with the
8 method and system of the present invention. As depicted, the process
9 begins at block **60** and thereafter passes to block **62**. Block **62** illustrates a
10 determination of whether or not the user desires to define a process and if
11 not, the process merely returns in an iterative fashion to await the initiation of
12 the creation of a user defined process in accordance with the method and
13 system of the present invention.

14

15 Still referring to block **62**, in the event the user does desire to
16 define a process, the process passes to block **64**. Block **64** illustrates the
17 entering of a process definition state. Those ordinarily skilled in the art will
18 appreciate that a procedure may be created for specifying process definition
19 and executed utilizing a so-called "Terminate and Stay Resident" (TSR)
20 processing technique. That is, a process which is initiated utilizing a so-called
21 "hot key" and which thereafter interprets keystrokes which follow the
22 invocation of that procedure as keystrokes which are to be recorded for
23 future utilization, rather than passed directly to the data processing system.

24

25 Next, the process passes to block **66** which illustrates the
26 capture and storing of the keystrokes and other selected inputs, such as
27 mouse movements or the like. Thereafter, the process passes to block **68**.
28 Block **68** illustrates a determination of whether or not the process definition

1 has ended and if not, the process returns to block 66 to continue to capture
2 keystrokes and selected user inputs.

3

4 Once the process definition has ended, as determined at block
5 68, the process passes to block 70. Block 70 illustrates the storing of the
6 defined process and the process then passes to block 72. Block 72
7 illustrates a determination of whether or not a second user defined process
8 is to be defined and if so, the process returns to block 64 in an iterative
9 fashion to begin the process definition procedure for a second user defined
10 process. In the event no other process is to be defined, this procedure
11 passes to block 74 and returns. A user may desire to utilize existing
12 processes, such as macros, batch files, programs or the like. In such
13 circumstances, the process detailed in Figure 6 will not be necessary.

14

15 With reference now to Figure 7, there is depicted a high level
16 logic flowchart which illustrates the association of a user defined process with
17 a movable cursor in accordance with the method and system of the present
18 invention. As illustrated, this process begins at block 80 and thereafter
19 passes to block 82. Block 82 illustrates a determination of whether or not
20 cursor applied processing has been selected. If not, the process merely
21 iterates until such time as the user selects a cursor applied processing
22 procedure. Once the cursor applied processing procedure has been
23 selected, the process passes to block 84. Block 84 illustrates the prompting
24 of the user to select a predefined process. Recalling that the user may
25 predefine and store numerous processes, it should be clear to those having
26 ordinary skill in the art that the user may select one of several predefined
27 processes for utilization with the cursor applied processing process. It should
28 be noted that a reference to one or more existing processes such as macros,
29 batch files, programs or the like, may be utilized in lieu of the creation of a

1 process as outlined in **Figure 6** above. Next, the process passes to block
2 **86**. Block **86** illustrates a determination of whether or not the user has
3 responded to the prompt by selecting a predefined process. If not, the
4 process passes to block **88** which illustrates the generation of an error
5 message and the process returns to block **84** in an iterative fashion.

6

7 Still referring to block **86**, in the event the user has selected a
8 predefined process for utilization with the cursor applied processing
9 procedure, the process passes to block **90**. Block **90** illustrates the
10 association of that predefined process with the movable cursor. Next, the
11 process passes to block **92** which illustrates the alteration of the graphical
12 appearance of the movable cursor in order to indicate to the user that a
13 predefined process has been associated with that cursor. Thereafter, the
14 process passes to block **94** and returns. Error handling of an invalidly
15 specified process may be accomplished utilizing any technique known in the
16 art.

17

18 Finally, referring to **Figure 8**, there is depicted a high level logic
19 flowchart which illustrates the execution of a user defined process upon a
20 particular user selectable object in response to a graphic selection of that
21 object by a user utilizing the movable cursor, in accordance with the method
22 and system of the present invention. As illustrated, this process begins at
23 block **100** and thereafter passes to block **102**. Block **102** illustrates a
24 determination of whether or not the cursor has been utilized to graphically
25 select an object within display screen **18**. In the event the cursor has not
26 been utilized to select an object, the process returns, in an iterative fashion,
27 to await selection by the user of an object within the display screen utilizing
28 the movable mouse cursor. Next, the process passes to block **104**.

29

1 Block **104** illustrates a determination of whether or not the
2 system is currently operating within the cursor applied processing mode and
3 if not, the process passes to block **106** which illustrates the normal selection
4 procedure. That is, that procedure which occurs normally when an object
5 which has been graphically selected by the cursor is selected during normal
6 processing. Thereafter, the process passes to block **108** and returns.

7

8 Referring again to block **104**, in the event the data processing
9 system is operating within the cursor applied processing mode, the process
10 passes to block **110**. Block **110** illustrates a determination of whether or not
11 the object which has been selected is suitable for the selected predefined
12 process. Those ordinarily skilled in the art will appreciate that in view of the
13 fact that numerous user processes may be predefined, there may exist
14 selectable objects within the data processing system which are not suitable
15 for execution by a particular process. In the event the object selected is not
16 suitable for the selected process, the process passes to block **112** which
17 illustrates the generation of an error message. Thereafter, the process
18 passes to block **108** and returns.

19

20 Referring again to block **110**, in the event the object selected by
21 the user utilizing the mouse cursor is suitable for the selected process, the
22 process passes to block **114** which illustrates the execution of the selected
23 process on the graphically selected object in response to a graphic selection
24 of that object utilizing the movable mouse cursor. Next, the process passes
25 to optional block **116** which illustrates the returning and display of the results
26 of that process execution, if necessary or desired, and the process then
27 passes to block **108** and returns.

28

1 The movable mouse cursor, of course, remain enabled within
2 the cursor applied processing mode after selection of that mode as noted in
3 **Figure 7** until the user elects to disable that mode. After disabling the cursor
4 applied processing mode, the appearance of the movable mouse cursor will
5 be restored to a normal graphic appearance and will thereafter operate
6 normally.

7

8 Upon reference to the foregoing those skilled in the art will
9 appreciate that the Applicants herein have created an intuitive and graphic
10 technique whereby a user defined process may be created and thereafter
11 associated with a movable cursor element and then applied to an arbitrary
12 number of user selectable objects within a data processing system by the
13 simple expedient of graphically selecting an object utilizing a movable cursor
14 which has had a predefined user process associated therewith.

15

16 While the invention has been particularly shown and described
17 with reference to a preferred embodiment, it will be understood by those
18 skilled in the art that various changes in form and detail may be made therein
19 without departing from the spirit and scope of the invention.

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- 1 2. The graphic method for the efficient execution of a predefined process
- 2 within a data processing system according to Claim 1, further including the
- 3 step of altering a graphic appearance of said movable cursor in response to
- 4 said association of said predefined process with said movable cursor.
- 5

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- 1 3. The graphic method for the efficient execution of a predefined process
- 2 within a data processing system according to Claim 1, further including the
- 3 step of determining if said predefined process may be executed on said
- 4 particular object in response to a graphic selection of said particular object
- 5 by a user utilizing said movable cursor.
- 6

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- 1 4. The graphic method for the efficient execution of a predefined process
- 2 within a data processing system according to Claim 3, further including the
- 3 step of generating an error message in response to a determination that said
- 4 predefined process may not be executed on said particular object.
- 5

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- 1 5. The graphic method for the efficient execution of a predefined process
- 2 within a data processing system according to Claim 1, wherein said step of
- 3 specifying a predefined process within said data processing system
- 4 comprises the step of specifying a user defined executable process which
- 5 may be applied to one or more objects within said data processing system.

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1 6. The graphic method for the efficient execution of a predefined process
2 within a data processing system according to Claim 1, wherein said data
3 processing system includes a graphical pointing device and wherein said step
4 of executing said predefined process on a particular object within said data
5 processing system in response to a graphic selection of said particular object
6 by a user utilizing said movable cursor comprises the step of executing said
7 predefined process on a particular object within said data processing system
8 in response to a graphic selection of said particular object by a user utilizing
9 said graphical pointing device to relocate said movable cursor.

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1 7. A system for the efficient execution of a predefined process within a
2 data processing system having a plurality of objects and a movable cursor
3 displayed therein, said system comprising:

4

5 means for specifying a predefined process within said data
6 processing system;

7

8 means for associating said predefined process with said
9 movable cursor within said data processing system; and

10

11 means for executing said predefined process on a particular
12 object within said data processing system in response to a graphic selection
13 of a said particular object by a user utilizing said movable cursor.

14

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- 1 8. The system for the efficient execution of a predefined process within
- 2 a data processing system according to Claim 7, further including means for
- 3 altering a graphic appearance of said movable cursor in response to said
- 4 association of said predefined process with said movable cursor.
- 5

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- 1 9. The system for the efficient execution of a predefined process within
- 2 a data processing system according to Claim 7, further including means for
- 3 determining if said predefined process may be executed on said particular
- 4 object in response to a graphic selection of said particular object by a user
- 5 utilizing said movable cursor.
- 6

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- 1 10. The system for the efficient execution of a predefined process within
- 2 a data processing system according to Claim 9, further including means for
- 3 generating an error message in response to a determination that said
- 4 predefined process may not be executed on said particular object.
- 5

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- 1 11. The system for the efficient execution of a predefined process within
- 2 a data processing system according to Claim 7, wherein said means for
- 3 specifying a predefined process within said data processing system
- 4 comprises means for specifying a user defined executable process which
- 5 may be applied to one or more objects within said data processing system.

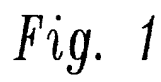
09150549-030393
12505050-64505150

- 1 12. The system for the efficient execution of a predefined process within
- 2 a data processing system according to Claim 7, wherein said data processing
- 3 system includes a graphical pointing device for relocating said movable
- 4 cursor.
- 5

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ABSTRACT OF THE DISCLOSURE
METHOD AND SYSTEM FOR CURSOR APPLIED PROCESSING
WITHIN A DATA PROCESSING SYSTEM

A method and system for efficiently executing a predefined process within a data processing system having multiple objects and a movable cursor element displayed therein. A user defined executable process is specified within the data processing system which may be applied to one or more arbitrary objects within the data processing system. The user defined executable process is then associated with the movable cursor within the data processing system. Thereafter, each time an object is graphically selected within the data processing system utilizing the movable cursor, the user defined executable process is applied to the selected object. The physical appearance of the movable cursor is preferably altered to indicate the association of the user defined executable process with the movable cursor and an error message is returned in response to a selection of an object which cannot be processed utilizing the user defined executable process.



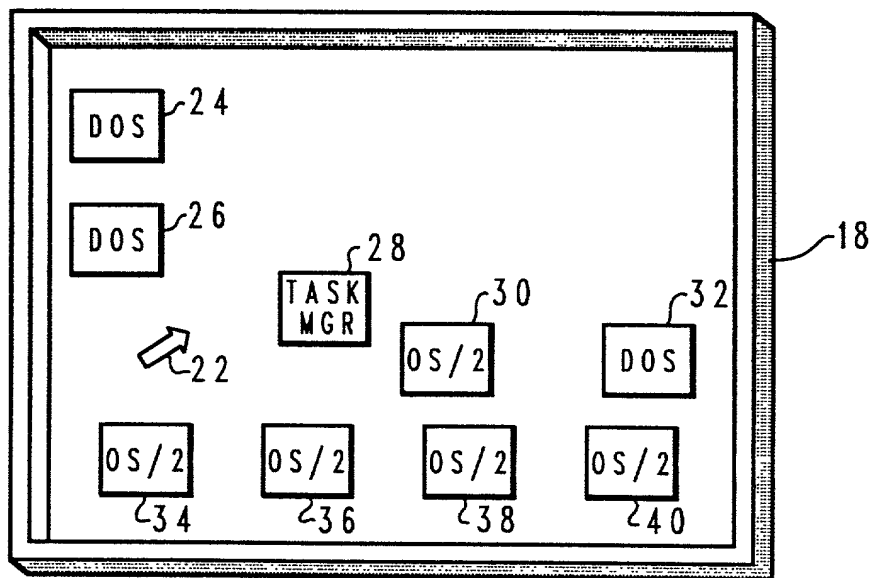


Fig. 2

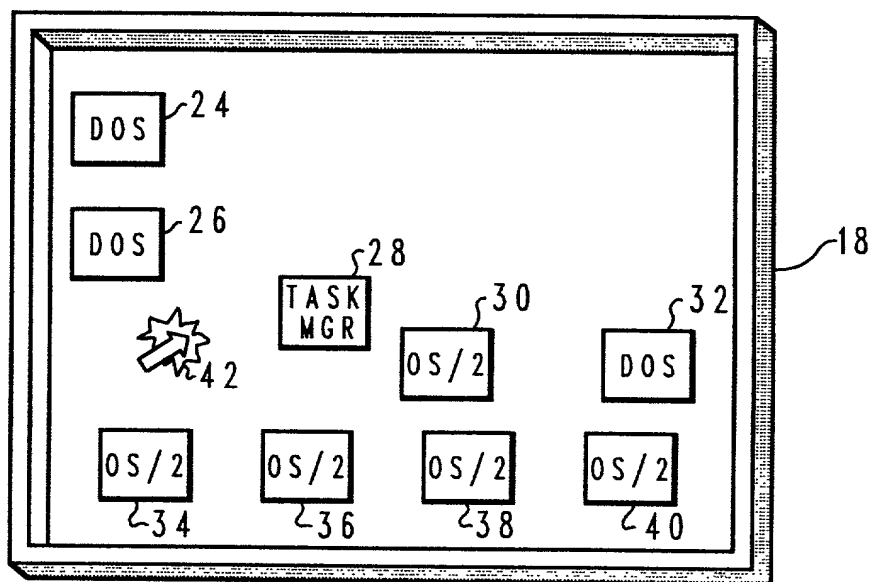


Fig. 3

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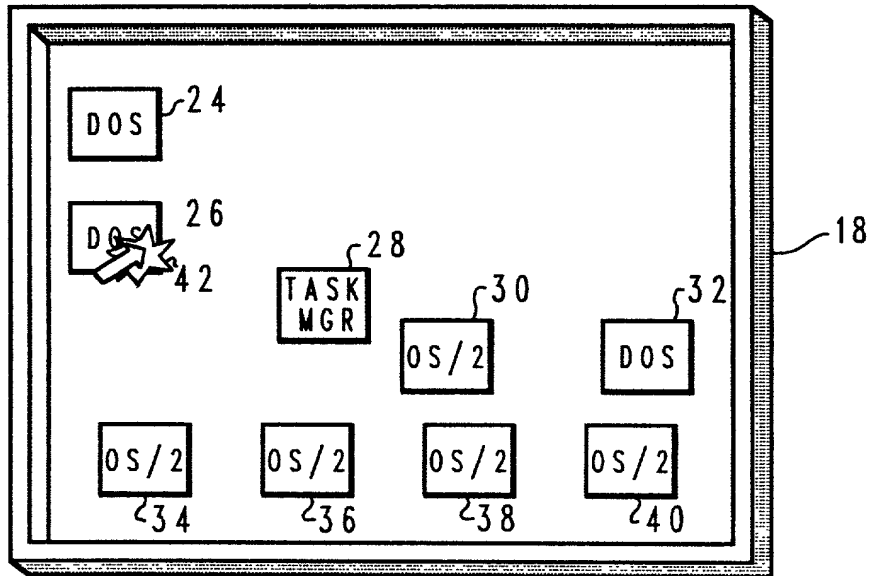


Fig. 4

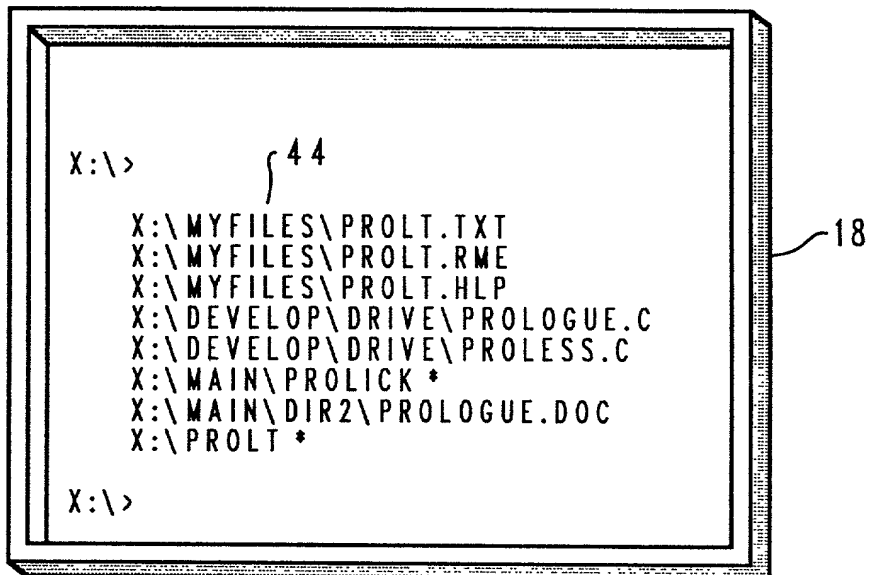
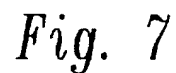
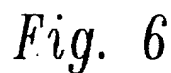


Fig. 5

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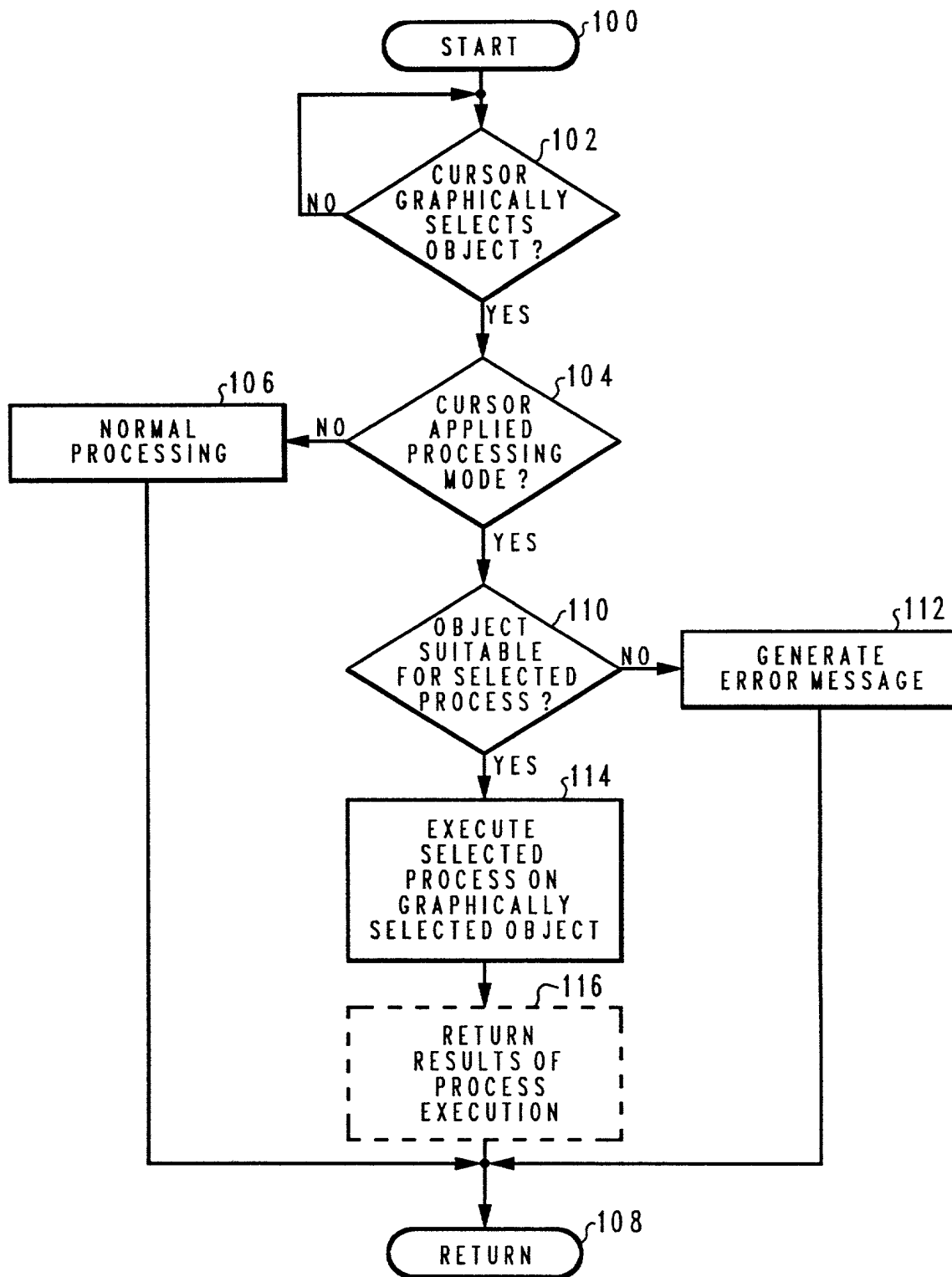


Fig. 8

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name:

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

METHOD AND SYSTEM FOR CURSOR APPLIED PROCESSING WITHIN A DATA PROCESSING SYSTEM

the specification of which (check one)

☒ is attached hereto
_____ was filed on _____ as
Application Serial No. _____
and was amended on _____
(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application of patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

(Number)	(Country)	(Day/Month/Year Filed)	Priority Claimed	
			Yes	No
_____	_____	_____	Yes	No
_____	_____	_____	Yes	No
_____	_____	_____	Yes	No

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information material to the patentability of this application as defined in Title 37, Code of Federal Regulations, § 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)
_____	_____	_____
(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)
_____	_____	_____

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

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